ABSTRACT

The fast growth of web services technology impacts world software developers to continuously develop and improve many applications based on web services technology. Nevertheless, data transaction security issues on web services make this technology not widely implemented in industrial area.

This final project will implement and analyze data security on web service with encrypt SOAP message using .NET framework 1.1 and Visual Studio.NET 2003. In this case, we will encrypt and decrypt SOAP message with file log and stream methods, and using AES Rijndael algorithm that support for encrypt data streaming.

With this implementation process of data security with encrypt an decrypt on Web Service using AES Rijndael algorithm, hope data integrity from sent data from client to web service server or reverse of that process. Beside that, respond time for sent encrypted data is not much different than respond time for sent not encrypted data with web service.

Keywords: Web service, SOAP, Enkripsi, Dekripsi.